

CLAIMS

[1] An information storage system provided with a bulk memory and a host device for controlling writing of data into said bulk memory, said host device comprising:

5 an NG table for storing addresses specifying areas of said bulk memory into which data cannot be written;

a performance-guaranteed environment determination means for determining whether or not a current environment of said bulk memory is outside a performance-guaranteed
10 environment in which performance of said bulk memory is guaranteed; and

a control means for writing data in an area of said bulk memory specified by an address which is not stored in said NG
table. when said performance-guaranteed environment
15 determination means determines that the current environment is outside the performance-guaranteed environment.

[2] The information storage system according to Claim 1, characterized in that said control means includes:

an address acquisition means for acquiring the address
20 of said bulk memory which is not stored in said NG table when said performance-guaranteed environment determination means determines that the current environment of said bulk memory is outside the performance-guaranteed environment;

a data acquisition means for acquiring the data which are
25 to be written into said bulk memory, a data writing means for writing the data acquired by said data acquisition means into the area of said bulk memory which is specified by the address acquired by said address acquisition means; and

a verification checking means for comparing the data
30 which have been written into the area by said data writing means

with the data acquired by said data acquisition means, and for writing the address acquired by said address acquisition means in said NG table when determining that the data which have been written into the area does not match the data acquired by said
5 data acquisition means.

[3] The information storage system according to Claim 2, characterized in that said address acquisition means makes a request of a file system that manages files stored in said bulk memory to acquire the address which is not stored in said NG
10 table so as to acquire the address of said bulk memory from said file system.

[4] The information storage system according to Claim 2, characterized in that said data acquisition means acquires the data from a memory on a cluster-by-cluster basis.